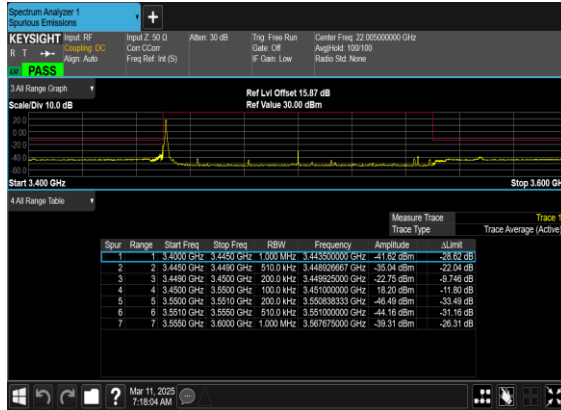
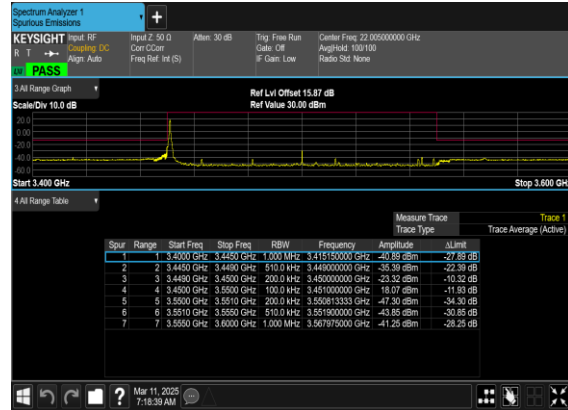




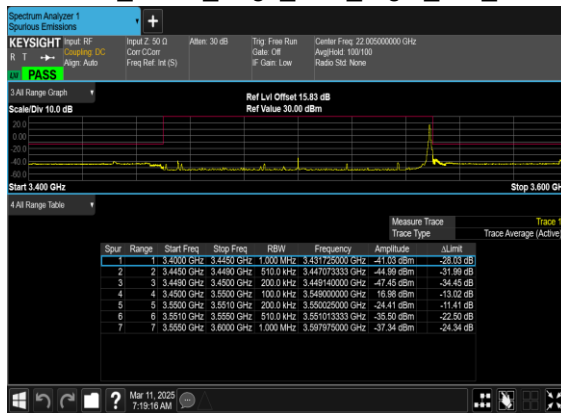
N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



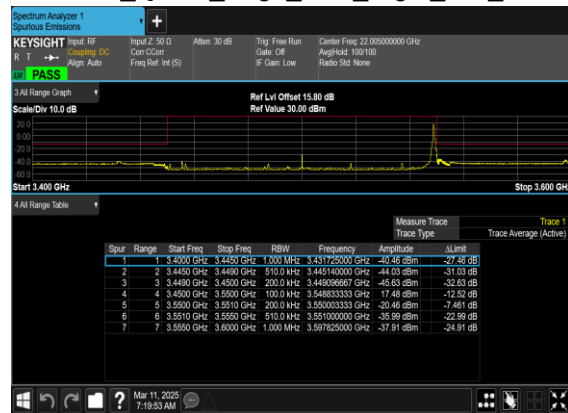
N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N77(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH

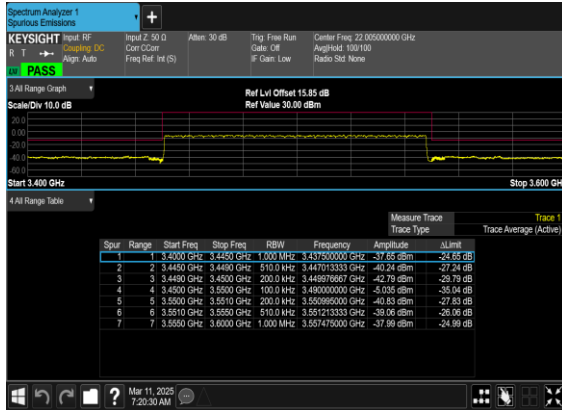


N77(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

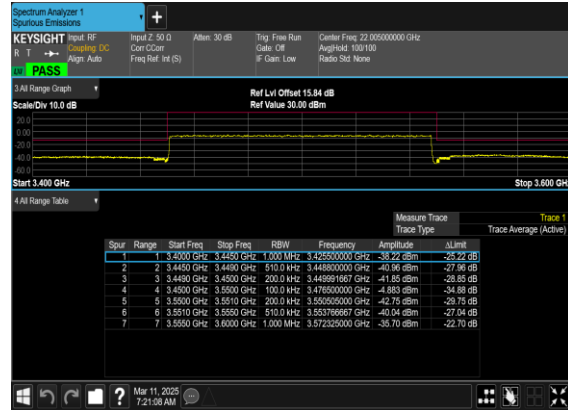




N77(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N77(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



Software Version: 23.06.1602

FR1 N78

Transmitter Conducted Output Power And EIRP, ($G_T - L_C$)=0.2dBi

NR Band	SCS	Bandwidth	Arfcn	Freq(M Hz)	Modulation	RB	Conducted Power(dBm)	EIRP(dBm)	EIRP(W)
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	25@12	26.35	26.55	0.4519
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@1	26.45	26.65	0.4624
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@49	25.93	26.13	0.4102
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	25@12	25.9	26.1	0.4074
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@1	25.95	26.15	0.4121
78	30	20	630668	3460.02	DFT-s-OFDM 16 QAM	1@49	25.39	25.59	0.3622
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	25@12	26.19	26.39	0.4355
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.94	26.14	0.4111
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@49	26.18	26.38	0.4345
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	25@12	25.7	25.9	0.3890
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.39	25.59	0.3622
78	30	20	633334	3500.01	DFT-s-OFDM 16 QAM	1@49	25.59	25.79	0.3793
78	30	20	636000	3540	DFT-s-OFDM QPSK	25@12	25.8	26	0.3981
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@1	25.87	26.07	0.4046
78	30	20	636000	3540	DFT-s-OFDM QPSK	1@49	25.83	26.03	0.4009
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	25@12	25.28	25.48	0.3532
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@1	25.33	25.53	0.3573
78	30	20	636000	3540	DFT-s-OFDM 16 QAM	1@49	25.28	25.48	0.3532
78	30	30	631000	3465	DFT-s-OFDM QPSK	36@18	26.15	26.35	0.4315
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@1	26.53	26.73	0.4710
78	30	30	631000	3465	DFT-s-OFDM QPSK	1@76	25.75	25.95	0.3936
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	36@18	25.63	25.83	0.3828
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@1	25.92	26.12	0.4093
78	30	30	631000	3465	DFT-s-OFDM 16 QAM	1@76	25.17	25.37	0.3443



78	30	30	633334	3500.01	DFT-s-OFDM QPSK	36@18	26.1	26.3	0.4266
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.88	26.08	0.4055
78	30	30	633334	3500.01	DFT-s-OFDM QPSK	1@76	26.04	26.24	0.4207
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	36@18	25.62	25.82	0.3819
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.32	25.52	0.3565
78	30	30	633334	3500.01	DFT-s-OFDM 16 QAM	1@76	25.55	25.75	0.3758
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	36@18	25.81	26.01	0.3990
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@1	26.04	26.24	0.4207
78	30	30	635666	3534.99	DFT-s-OFDM QPSK	1@76	25.72	25.92	0.3908
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	36@18	25.31	25.51	0.3556
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@1	25.56	25.76	0.3767
78	30	30	635666	3534.99	DFT-s-OFDM 16 QAM	1@76	25.3	25.5	0.3548
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	50@25	26	26.2	0.4169
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@1	26.47	26.67	0.4645
78	30	40	631334	3470.01	DFT-s-OFDM QPSK	1@104	25.82	26.02	0.3999
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	50@25	25.52	25.72	0.3733
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@1	25.97	26.17	0.4140
78	30	40	631334	3470.01	DFT-s-OFDM 16 QAM	1@104	25.24	25.44	0.3499
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	50@25	26.14	26.34	0.4305
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.82	26.02	0.3999
78	30	40	633334	3500.01	DFT-s-OFDM QPSK	1@104	25.94	26.14	0.4111
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	50@25	25.57	25.77	0.3776
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.26	25.46	0.3516
78	30	40	633334	3500.01	DFT-s-OFDM 16 QAM	1@104	25.37	25.57	0.3606
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	50@25	25.88	26.08	0.4055
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@1	26.3	26.5	0.4467
78	30	40	635332	3529.98	DFT-s-OFDM QPSK	1@104	25.74	25.94	0.3926
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	50@25	25.42	25.62	0.3648
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@1	25.77	25.97	0.3954
78	30	40	635332	3529.98	DFT-s-OFDM 16 QAM	1@104	25.29	25.49	0.3540



78	30	50	631668	3475.02	DFT-s-OFDM QPSK	64@32	25.93	26.13	0.4102
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@1	26.49	26.69	0.4667
78	30	50	631668	3475.02	DFT-s-OFDM QPSK	1@131	25.89	26.09	0.4064
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	64@32	25.4	25.6	0.3631
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@1	25.95	26.15	0.4121
78	30	50	631668	3475.02	DFT-s-OFDM 16 QAM	1@131	25.43	25.63	0.3656
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	64@32	26.1	26.3	0.4266
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.76	25.96	0.3945
78	30	50	633334	3500.01	DFT-s-OFDM QPSK	1@131	25.8	26	0.3981
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	64@32	25.67	25.87	0.3864
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.29	25.49	0.3540
78	30	50	633334	3500.01	DFT-s-OFDM 16 QAM	1@131	25.31	25.51	0.3556
78	30	50	635000	3525	DFT-s-OFDM QPSK	64@32	25.95	26.15	0.4121
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@1	26.27	26.47	0.4436
78	30	50	635000	3525	DFT-s-OFDM QPSK	1@131	25.74	25.94	0.3926
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	64@32	25.52	25.72	0.3733
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@1	25.71	25.91	0.3899
78	30	50	635000	3525	DFT-s-OFDM 16 QAM	1@131	25.18	25.38	0.3451
78	30	60	632000	3480	DFT-s-OFDM QPSK	81@40	25.86	26.06	0.4036
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@1	26.45	26.65	0.4624
78	30	60	632000	3480	DFT-s-OFDM QPSK	1@160	26.13	26.33	0.4295
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	81@40	25.4	25.6	0.3631
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@1	25.98	26.18	0.4150
78	30	60	632000	3480	DFT-s-OFDM 16 QAM	1@160	25.58	25.78	0.3784
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	81@40	26.03	26.23	0.4198
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@1	25.92	26.12	0.4093
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@160	25.71	25.91	0.3899
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	81@40	25.54	25.74	0.3750
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.41	25.61	0.3639
78	30	60	633334	3500.01	DFT-s-OFDM 16 QAM	1@160	25.14	25.34	0.3420



78	30	60	634666	3519.99	DFT-s-OFDM QPSK	81@40	25.98	26.18	0.4150
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@1	26.07	26.27	0.4236
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@160	25.75	25.95	0.3936
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	81@40	25.46	25.66	0.3681
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@1	25.55	25.75	0.3758
78	30	60	634666	3519.99	DFT-s-OFDM 16 QAM	1@160	25.19	25.39	0.3459
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	90@45	25.85	26.05	0.4027
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@1	26.61	26.81	0.4797
78	30	70	632334	3485.01	DFT-s-OFDM QPSK	1@187	25.76	25.96	0.3945
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	90@45	25.43	25.63	0.3656
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@1	26.02	26.22	0.4188
78	30	70	632334	3485.01	DFT-s-OFDM 16 QAM	1@187	25.33	25.53	0.3573
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	90@45	25.98	26.18	0.4150
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.15	26.35	0.4315
78	30	70	633334	3500.01	DFT-s-OFDM QPSK	1@187	25.52	25.72	0.3733
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	90@45	25.57	25.77	0.3776
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.58	25.78	0.3784
78	30	70	633334	3500.01	DFT-s-OFDM 16 QAM	1@187	25.04	25.24	0.3342
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	90@45	26.07	26.27	0.4236
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@1	25.85	26.05	0.4027
78	30	70	634332	3514.98	DFT-s-OFDM QPSK	1@187	25.58	25.78	0.3784
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	90@45	25.6	25.8	0.3802
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@1	25.39	25.59	0.3622
78	30	70	634332	3514.98	DFT-s-OFDM 16 QAM	1@187	25.12	25.32	0.3404
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	108@54	25.97	26.17	0.4140
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@1	26.61	26.81	0.4797
78	30	80	632668	3490.02	DFT-s-OFDM QPSK	1@215	25.71	25.91	0.3899
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	108@54	25.47	25.67	0.3690
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@1	26.05	26.25	0.4217
78	30	80	632668	3490.02	DFT-s-OFDM 16 QAM	1@215	25.17	25.37	0.3443



78	30	80	633334	3500.01	DFT-s-OFDM QPSK	108@54	26.02	26.22	0.4188
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.34	26.54	0.4508
78	30	80	633334	3500.01	DFT-s-OFDM QPSK	1@215	25.6	25.8	0.3802
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	108@54	25.48	25.68	0.3698
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.76	25.96	0.3945
78	30	80	633334	3500.01	DFT-s-OFDM 16 QAM	1@215	25.05	25.25	0.3350
78	30	80	634000	3510	DFT-s-OFDM QPSK	108@54	26.01	26.21	0.4178
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@1	26.04	26.24	0.4207
78	30	80	634000	3510	DFT-s-OFDM QPSK	1@215	25.58	25.78	0.3784
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	108@54	25.55	25.75	0.3758
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@1	25.48	25.68	0.3698
78	30	80	634000	3510	DFT-s-OFDM 16 QAM	1@215	25.15	25.35	0.3428
78	30	90	633000	3495	DFT-s-OFDM QPSK	120@60	26.01	26.21	0.4178
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@1	26.56	26.76	0.4742
78	30	90	633000	3495	DFT-s-OFDM QPSK	1@243	25.48	25.68	0.3698
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	120@60	25.52	25.72	0.3733
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@1	26.05	26.25	0.4217
78	30	90	633000	3495	DFT-s-OFDM 16 QAM	1@243	25.01	25.21	0.3319
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	120@60	26.01	26.21	0.4178
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.45	26.65	0.4624
78	30	90	633334	3500.01	DFT-s-OFDM QPSK	1@243	25.5	25.7	0.3715
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	120@60	25.46	25.66	0.3681
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	25.91	26.11	0.4083
78	30	90	633334	3500.01	DFT-s-OFDM 16 QAM	1@243	25.03	25.23	0.3334
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	120@60	26.04	26.24	0.4207
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@1	26.28	26.48	0.4446
78	30	90	633666	3504.99	DFT-s-OFDM QPSK	1@243	25.6	25.8	0.3802
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	120@60	25.53	25.73	0.3741
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@1	25.89	26.09	0.4064
78	30	90	633666	3504.99	DFT-s-OFDM 16 QAM	1@243	25.08	25.28	0.3373



78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	135@67	25.88	26.08	0.4055
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@1	26.63	26.83	0.4819
78	30	100	633334	3500.01	DFT-s-OFDM PI/2 BPSK	1@271	25.57	25.77	0.3776
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	135@67	25.96	26.16	0.4130
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@1	26.55	26.75	0.4732
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@271	25.52	25.72	0.3733
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	135@67	25.49	25.69	0.3707
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@1	26.13	26.33	0.4295
78	30	100	633334	3500.01	DFT-s-OFDM 16 QAM	1@271	25.1	25.3	0.3388
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	135@67	24.55	24.75	0.2985
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@1	25.1	25.3	0.3388
78	30	100	633334	3500.01	DFT-s-OFDM 64 QAM	1@271	24.16	24.36	0.2729
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	135@67	24.02	24.22	0.2642
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@1	24.4	24.6	0.2884
78	30	100	633334	3500.01	DFT-s-OFDM 256 QAM	1@271	23.44	23.64	0.2312
78	30	100	633334	3500.01	CP-OFDM QPSK	137@68	24.93	25.13	0.3258
78	30	100	633334	3500.01	CP-OFDM QPSK	1@1	25.45	25.65	0.3673
78	30	100	633334	3500.01	CP-OFDM QPSK	1@271	24.5	24.7	0.2951

Frequency Stability

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Deviation (Hz)	Verdict	Environment
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.2	PASS	NV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	18.2	PASS	LV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	10.8	PASS	HV
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.1	PASS	-30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.8	PASS	-20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	14.7	PASS	-10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17.1	PASS	0°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	17	PASS	10°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	15.2	PASS	20°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11	PASS	30°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	13.4	PASS	40°C
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	11.2	PASS	50°C

$|\text{MAX}(\Delta f)| = 18.2 \text{ Hz}$

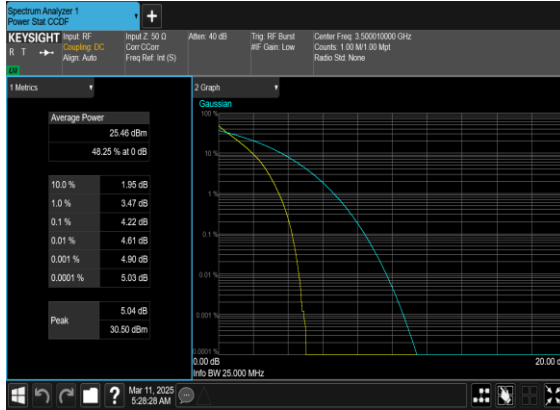
Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	3450.869182	$\geq 3450 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	3548.751218	$\leq 3550 \text{ MHz}$	



Peak to Average Ratio

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
78	30	20	633334	3500.01	DFT-s-OFDM PI/2 BPSK	50@0	4.22	13	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	50@0	5.33	13	PASS

N78(20M)_DFT-s-OFDM_PI_2-
BPSK_Outer_Full_Mid_CH



N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



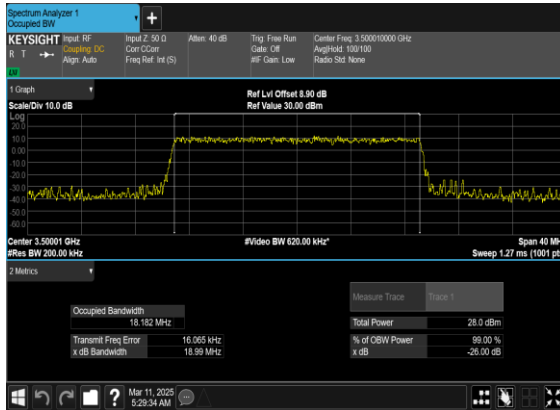
**Occupied Bandwidth**

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
78	30	20	633334	3500.01	CP-OFDM QPSK	51@0	18.182	18.99
78	30	20	633334	3500.01	CP-OFDM 16 QAM	51@0	18.245	18.91
78	30	20	633334	3500.01	CP-OFDM 64 QAM	51@0	18.212	18.9
78	30	20	633334	3500.01	CP-OFDM 256 QAM	51@0	18.223	18.93
78	30	30	633334	3500.01	CP-OFDM QPSK	78@0	27.821	28.77
78	30	30	633334	3500.01	CP-OFDM 16 QAM	78@0	27.854	28.97
78	30	30	633334	3500.01	CP-OFDM 64 QAM	78@0	27.794	28.88
78	30	30	633334	3500.01	CP-OFDM 256 QAM	78@0	27.784	29.02
78	30	40	633334	3500.01	CP-OFDM QPSK	106@0	37.787	39.1
78	30	40	633334	3500.01	CP-OFDM 16 QAM	106@0	37.878	39.27
78	30	40	633334	3500.01	CP-OFDM 64 QAM	106@0	37.765	39.13
78	30	40	633334	3500.01	CP-OFDM 256 QAM	106@0	37.859	39.2
78	30	50	633334	3500.01	CP-OFDM QPSK	133@0	47.428	48.95
78	30	50	633334	3500.01	CP-OFDM 16 QAM	133@0	47.311	49.2
78	30	50	633334	3500.01	CP-OFDM 64 QAM	133@0	47.451	49.2
78	30	50	633334	3500.01	CP-OFDM 256 QAM	133@0	47.392	48.92
78	30	60	633334	3500.01	CP-OFDM QPSK	162@0	57.576	59.58
78	30	60	633334	3500.01	CP-OFDM 16 QAM	162@0	57.517	59.7
78	30	60	633334	3500.01	CP-OFDM 64 QAM	162@0	57.742	59.68
78	30	60	633334	3500.01	CP-OFDM 256 QAM	162@0	57.703	59.72
78	30	70	633334	3500.01	CP-OFDM QPSK	189@0	67.369	69.79
78	30	70	633334	3500.01	CP-OFDM 16 QAM	189@0	67.272	69.66

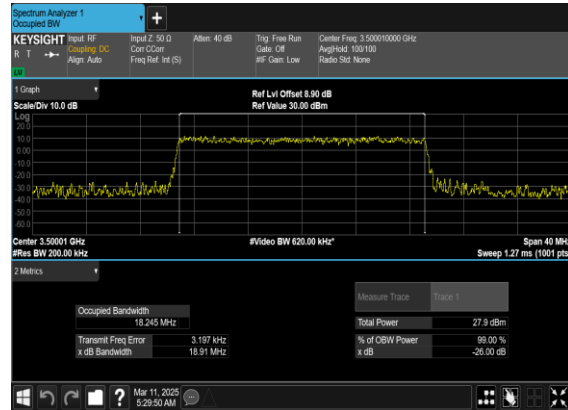
78	30	70	633334	3500.01	CP-OFDM 64 QAM	189@0	67.42	69.67
78	30	70	633334	3500.01	CP-OFDM 256 QAM	189@0	67.554	69.72
78	30	80	633334	3500.01	CP-OFDM QPSK	217@0	77.534	79.84
78	30	80	633334	3500.01	CP-OFDM 16 QAM	217@0	77.471	79.89
78	30	80	633334	3500.01	CP-OFDM 64 QAM	217@0	77.579	79.9
78	30	80	633334	3500.01	CP-OFDM 256 QAM	217@0	77.285	79.96
78	30	90	633334	3500.01	CP-OFDM QPSK	245@0	87.493	90.17
78	30	90	633334	3500.01	CP-OFDM 16 QAM	245@0	87.233	90.24
78	30	90	633334	3500.01	CP-OFDM 64 QAM	245@0	87.369	90.23
78	30	90	633334	3500.01	CP-OFDM 256 QAM	245@0	87.295	90.18
78	30	100	633334	3500.01	CP-OFDM QPSK	273@0	97.301	100.5
78	30	100	633334	3500.01	CP-OFDM 16 QAM	273@0	97.557	100.5
78	30	100	633334	3500.01	CP-OFDM 64 QAM	273@0	97.237	100.5
78	30	100	633334	3500.01	CP-OFDM 256 QAM	273@0	97.407	100.6



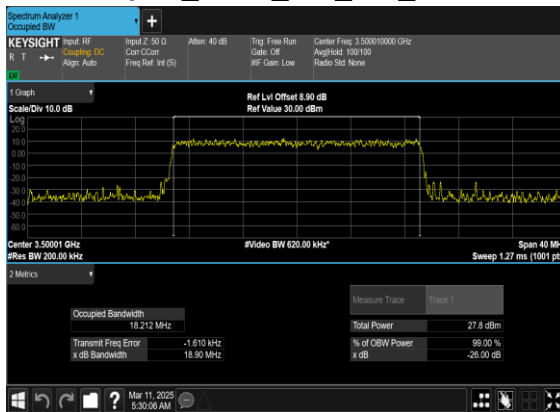
N78(20M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



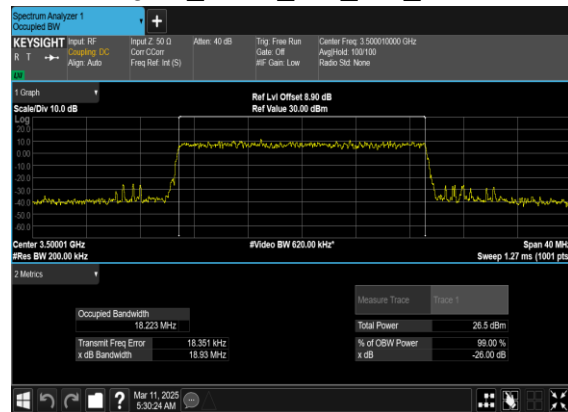
N78(20M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(20M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

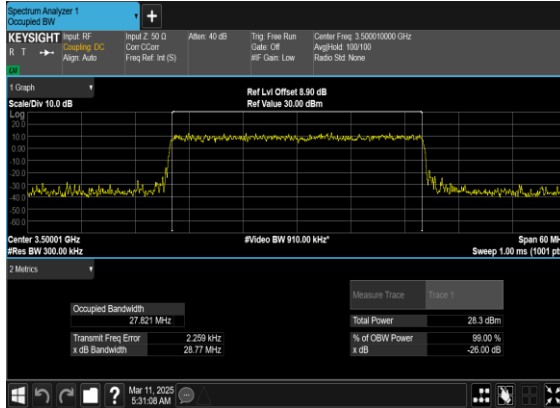


N78(20M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

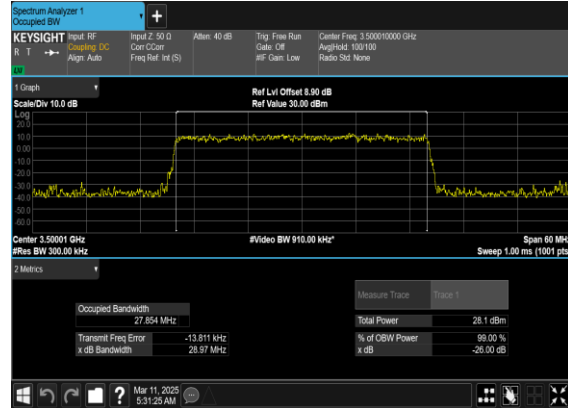




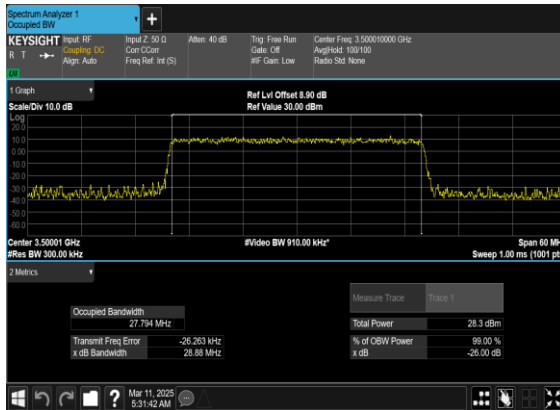
N78(30M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



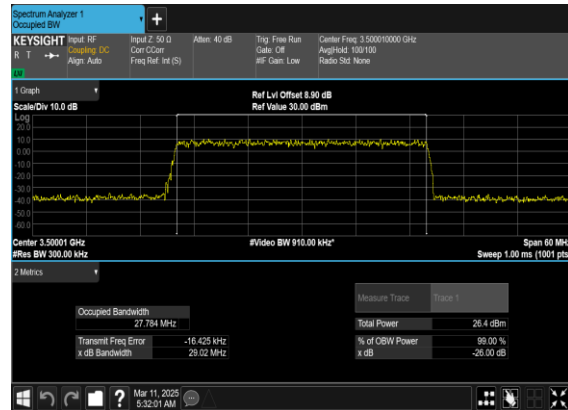
N78(30M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(30M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

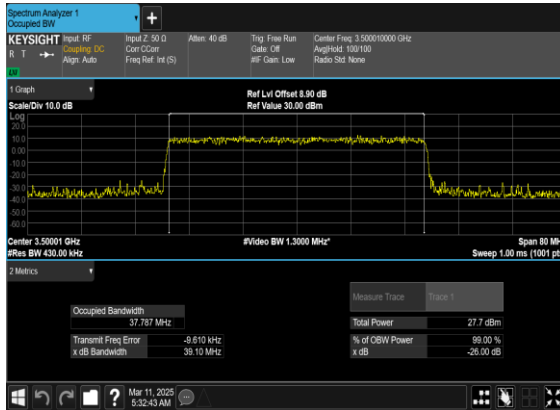


N78(30M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

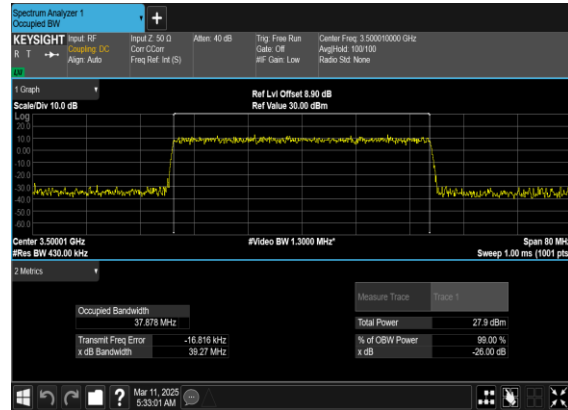




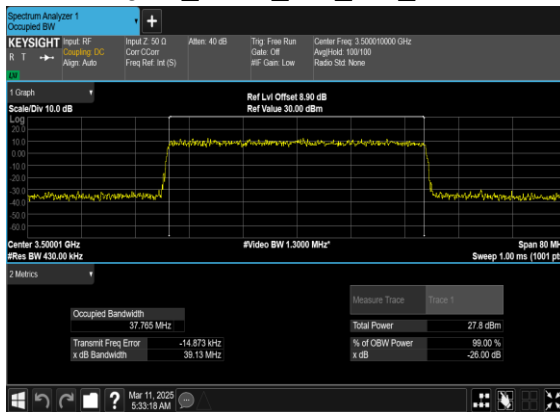
N78(40M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



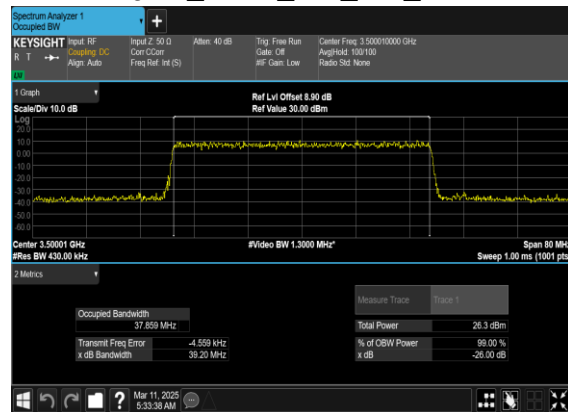
N78(40M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(40M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(40M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

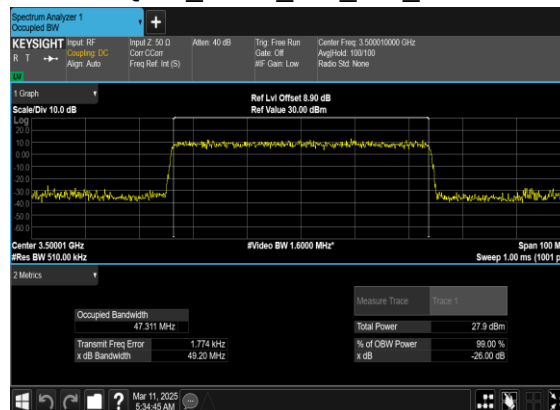




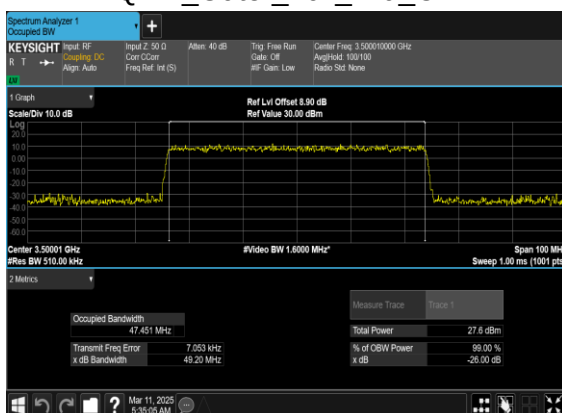
N78(50M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



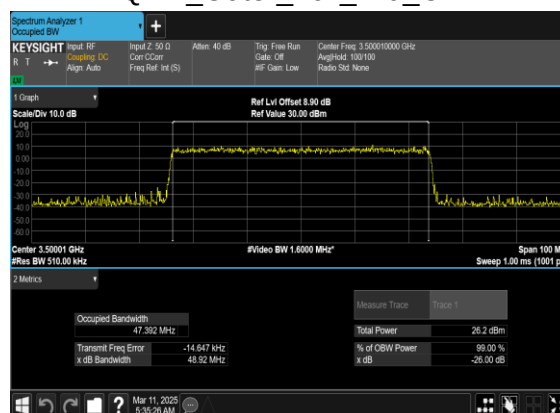
N78(50M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(50M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

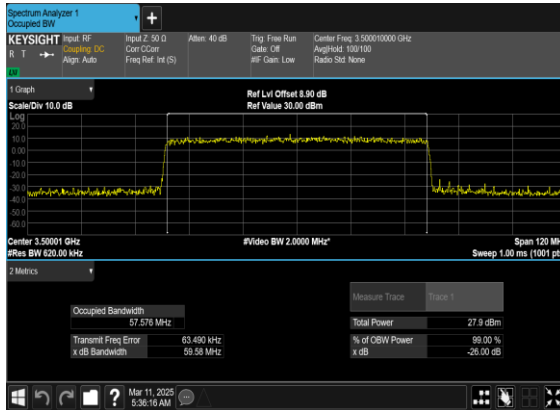


N78(50M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

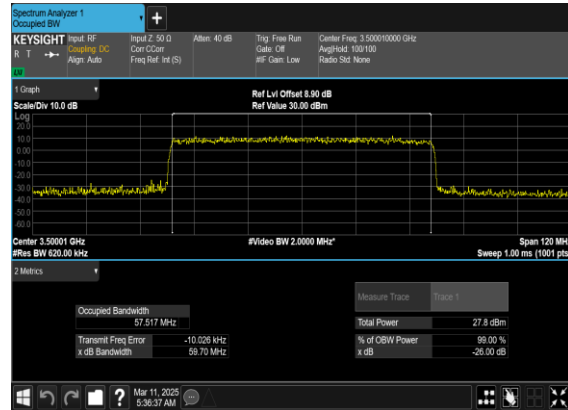




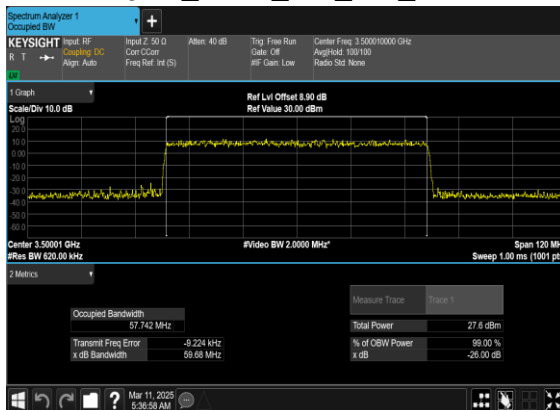
N78(60M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



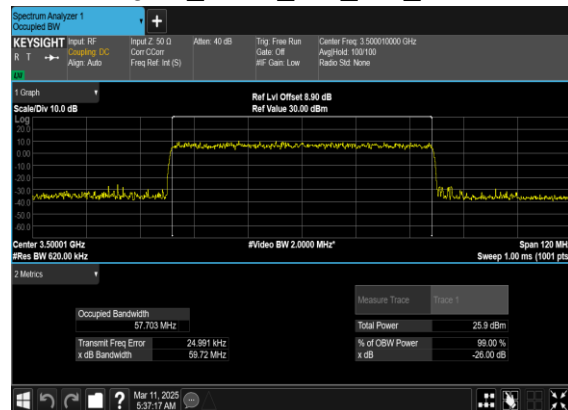
N78(60M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(60M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

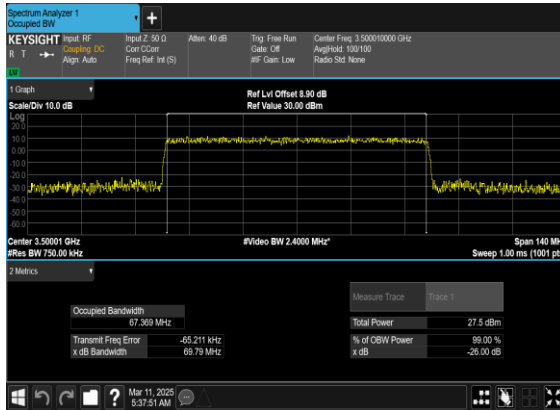


N78(60M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

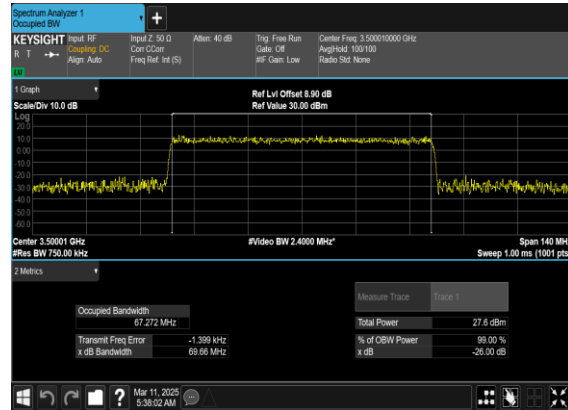




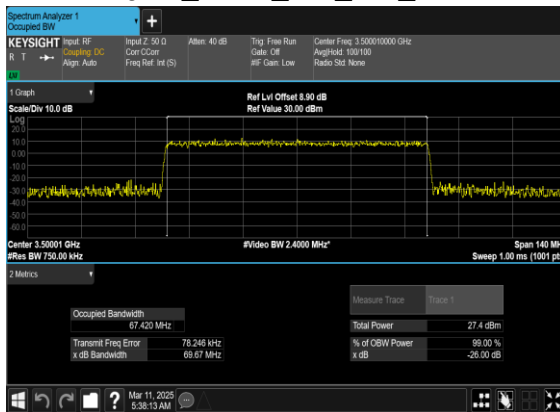
N78(70M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



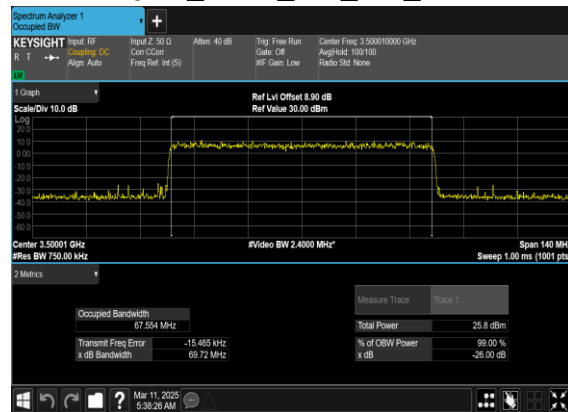
N78(70M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(70M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

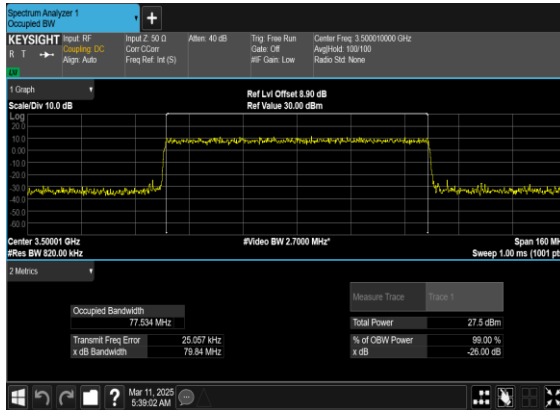


N78(70M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

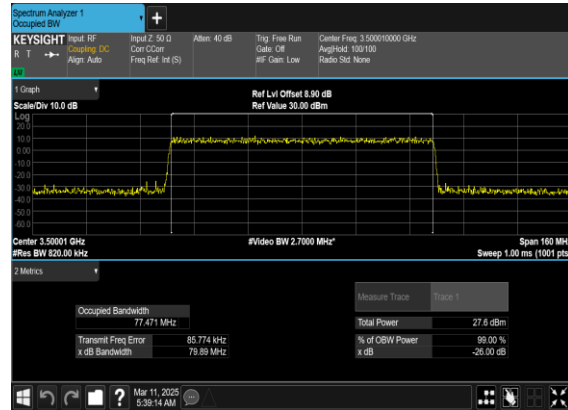




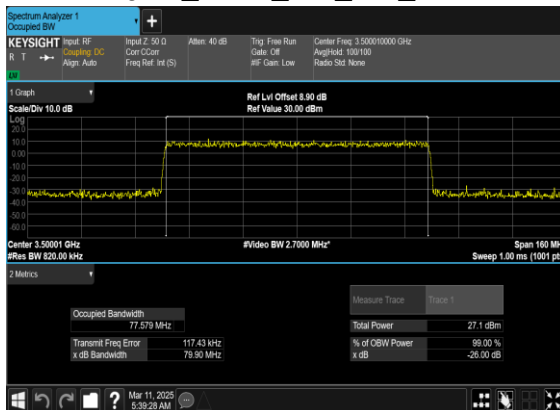
N78(80M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



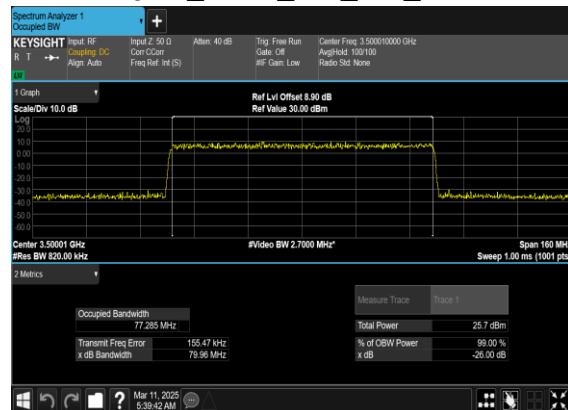
N78(80M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(80M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

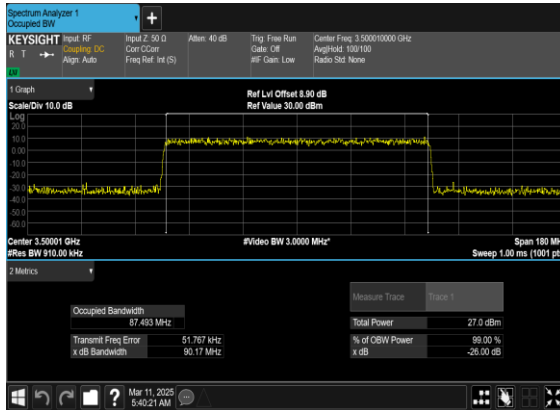


N78(80M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

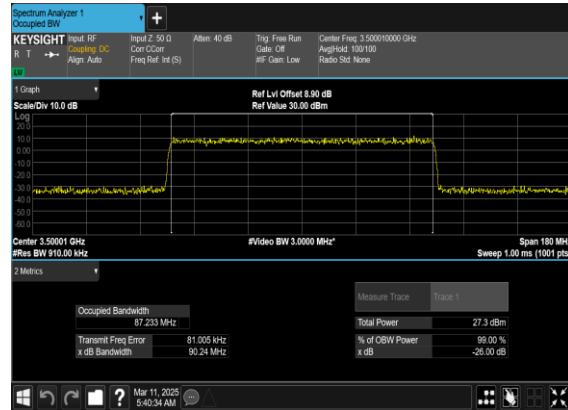




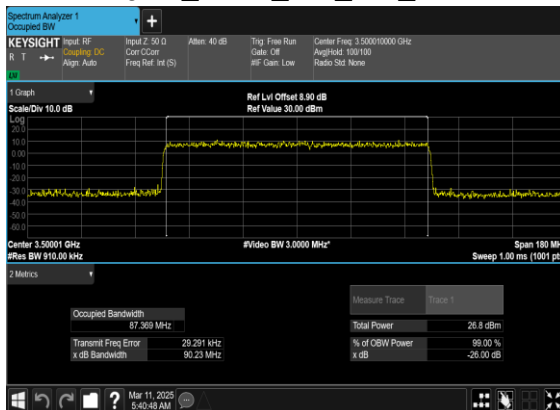
N78(90M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



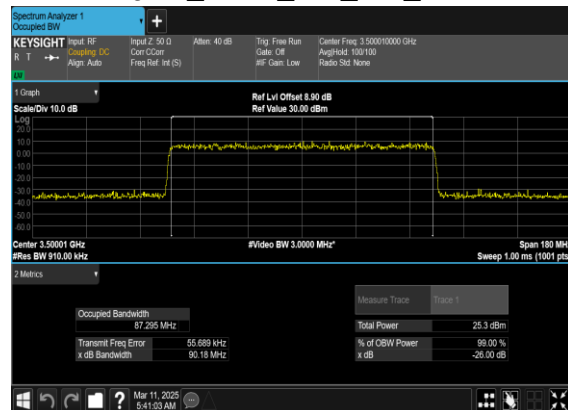
N78(90M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(90M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH

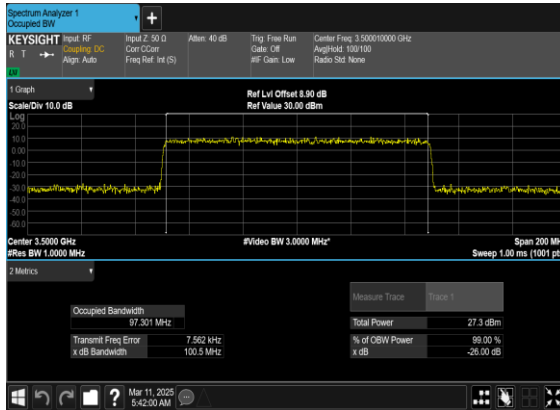


N78(90M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH

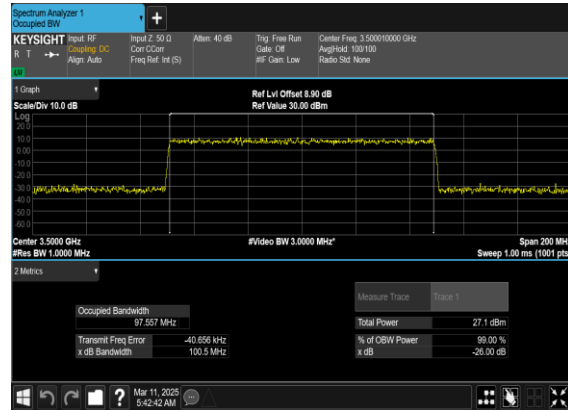




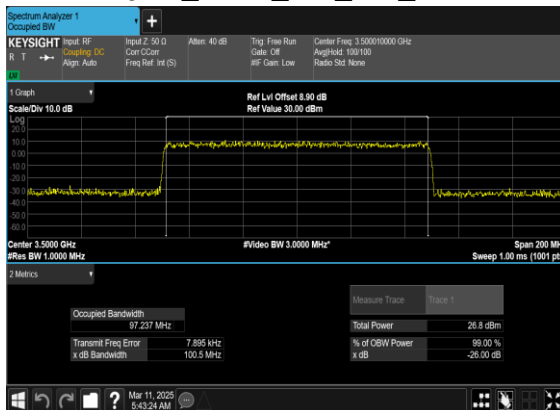
N78(100M)_CP-
OFDM_QPSK_Outer_Full_Mid_CH



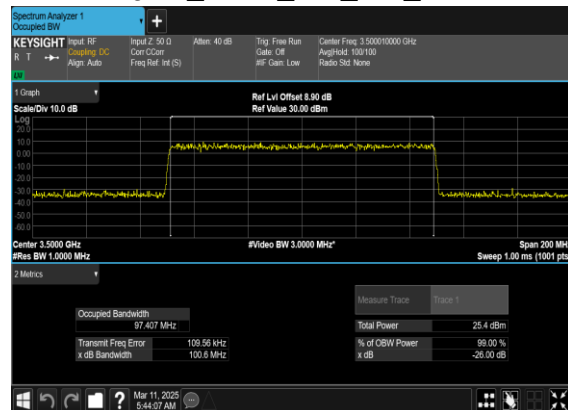
N78(100M)_CP-OFDM_16
QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_64
QAM_Outer_Full_Mid_CH



N78(100M)_CP-OFDM_256
QAM_Outer_Full_Mid_CH



Conducted Spurious Emissions

NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	---

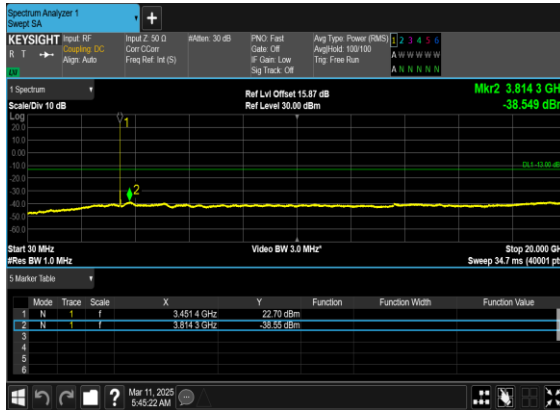
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	---
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	---
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	---



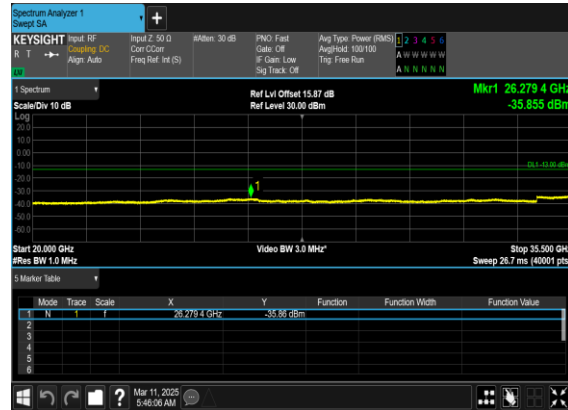
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS



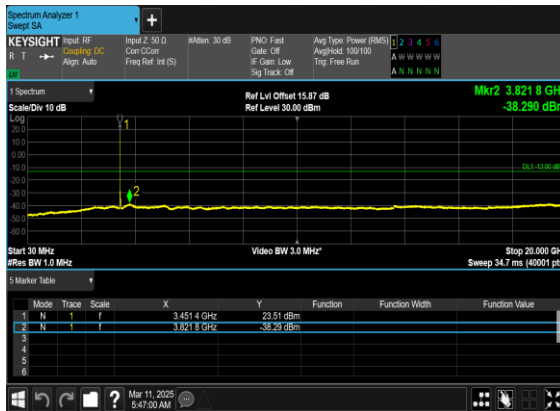
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



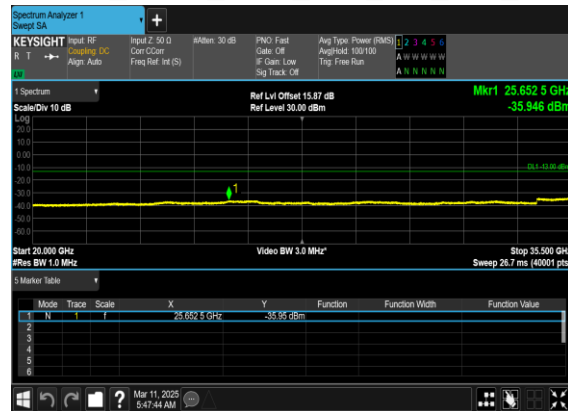
N78(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

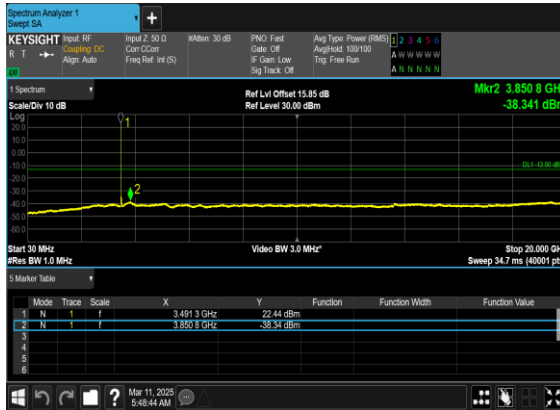


N78(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH

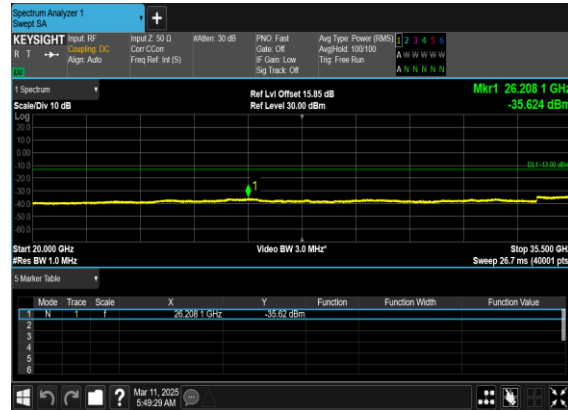




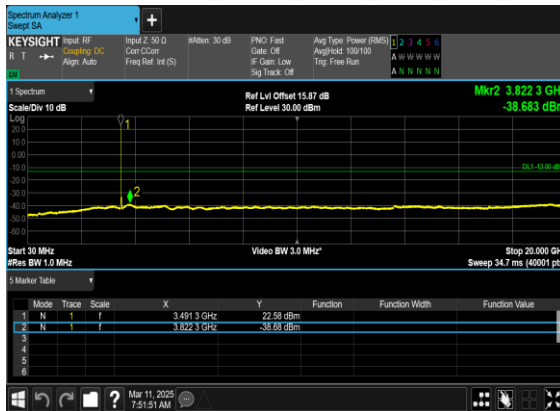
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



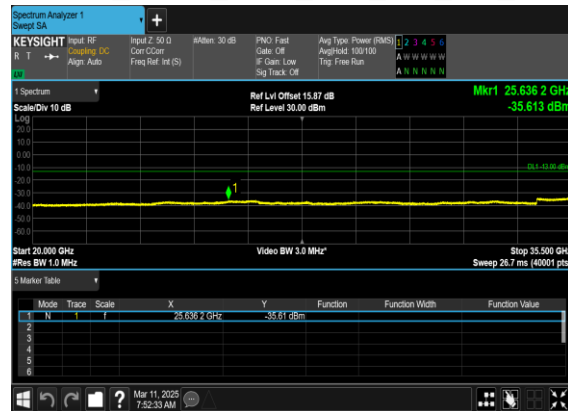
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

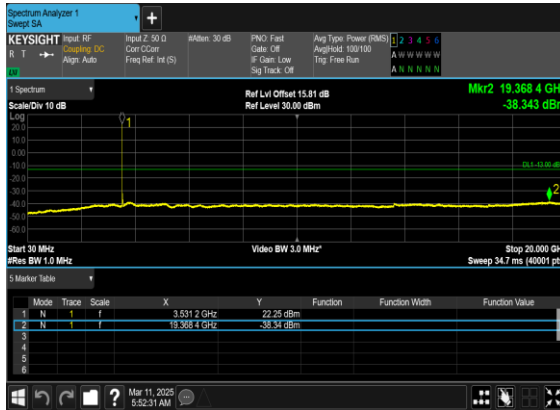


N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

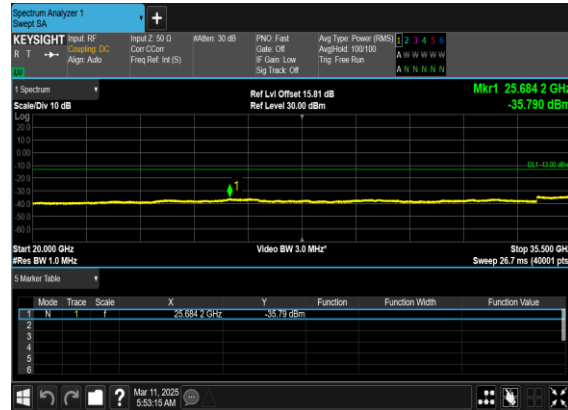




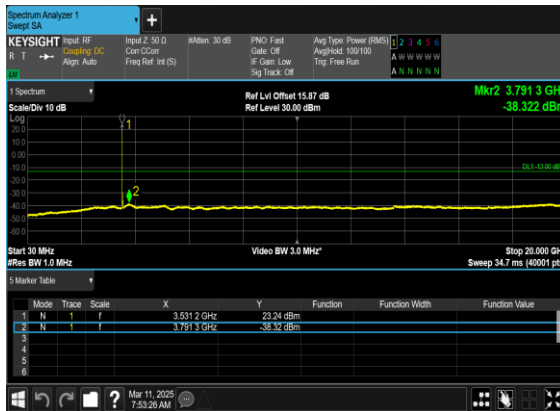
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



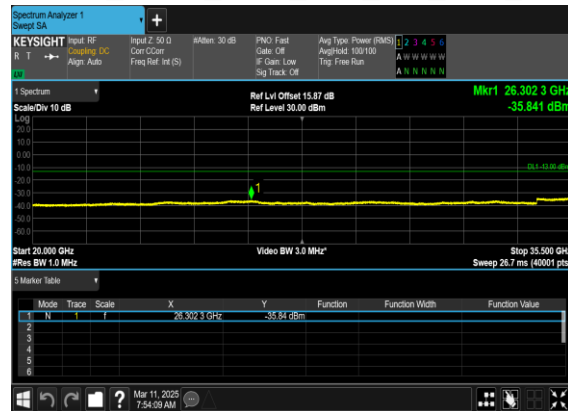
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

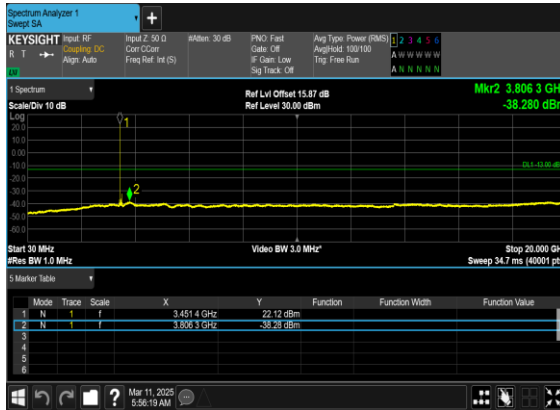


N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

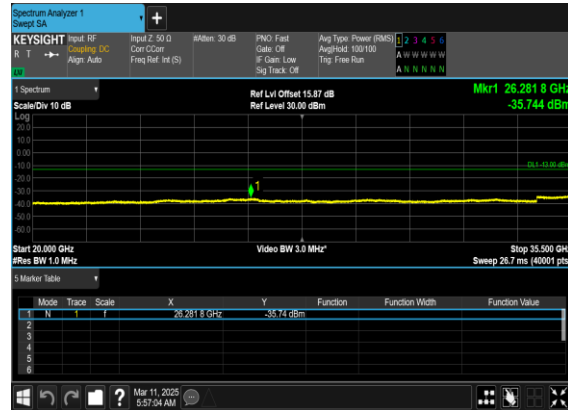




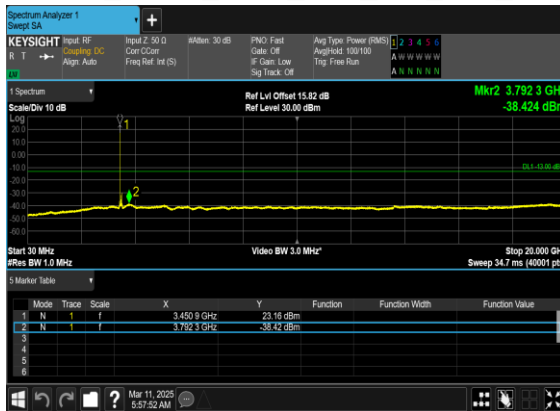
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



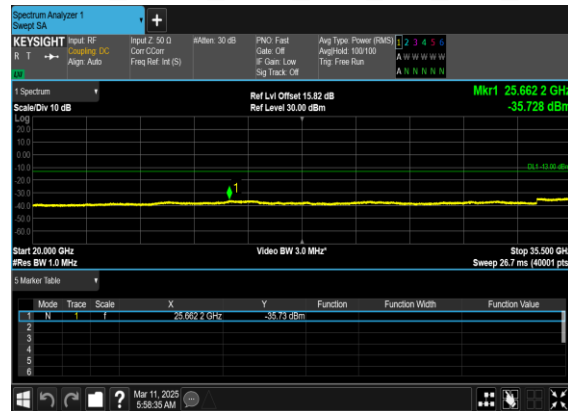
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

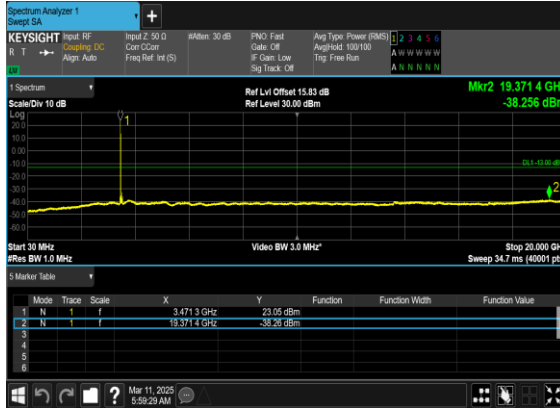


N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH

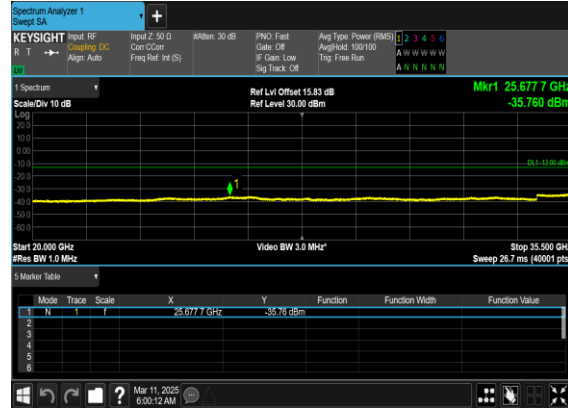




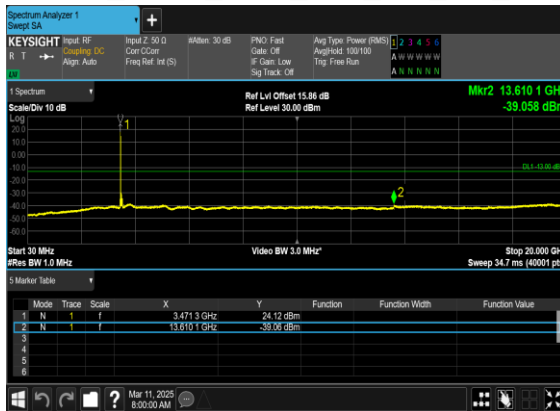
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



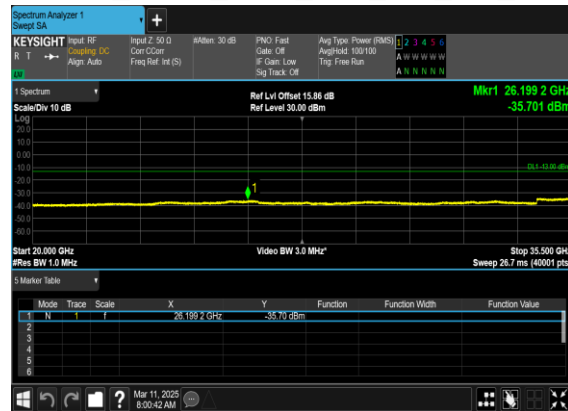
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

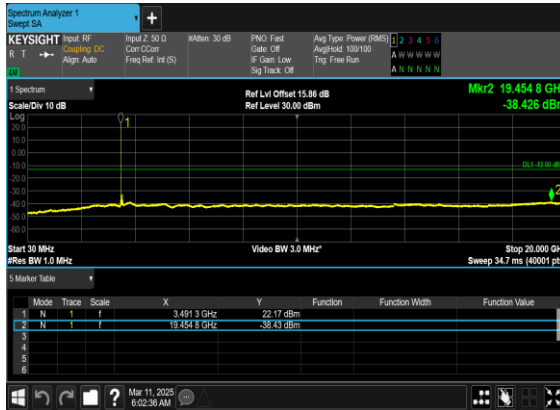


N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH

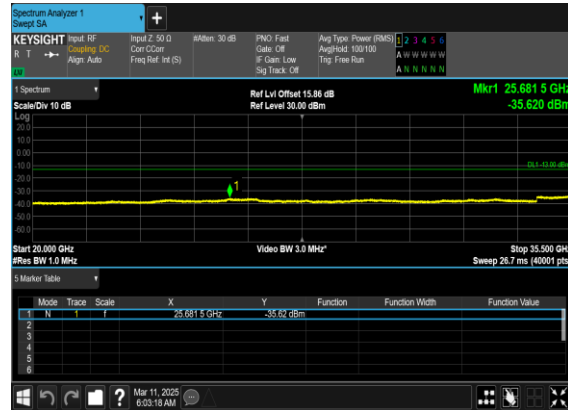




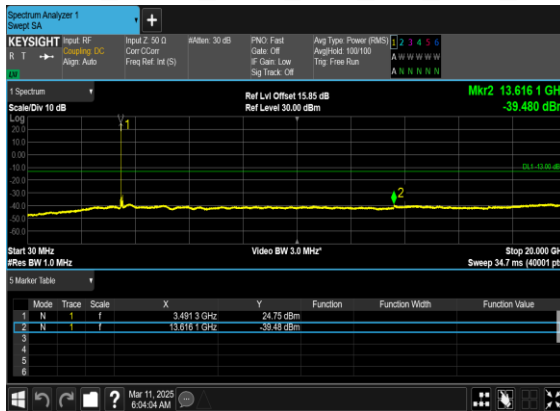
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



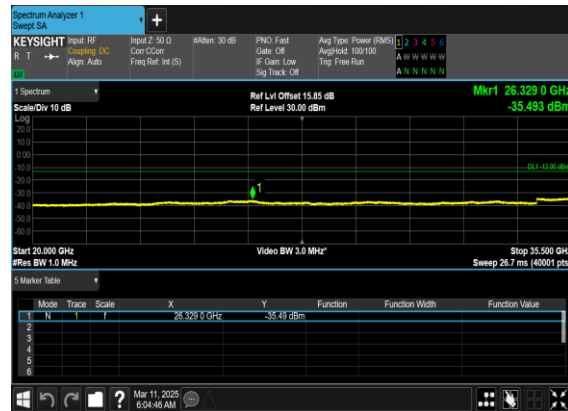
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_High_CH



N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

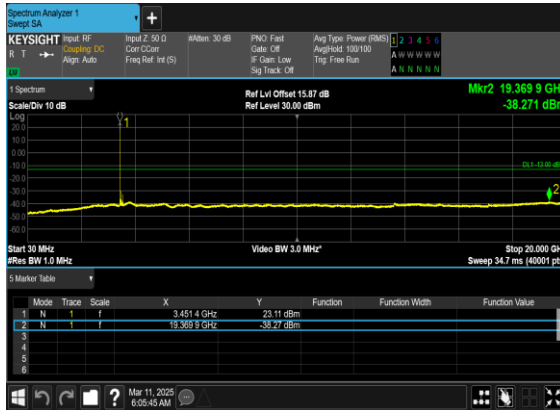


N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_High_CH

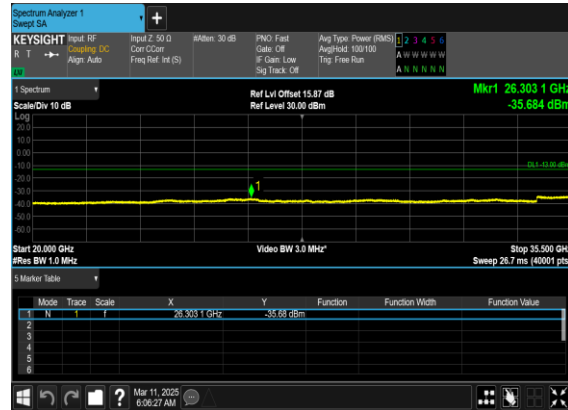




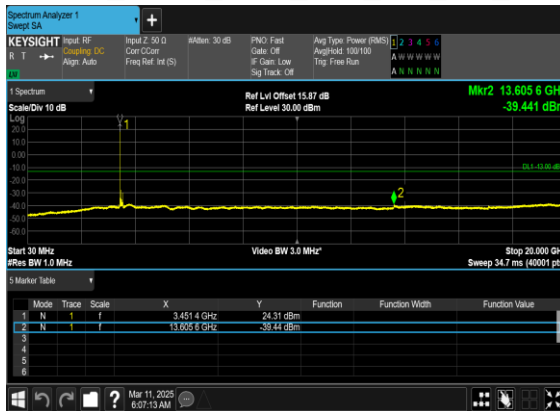
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



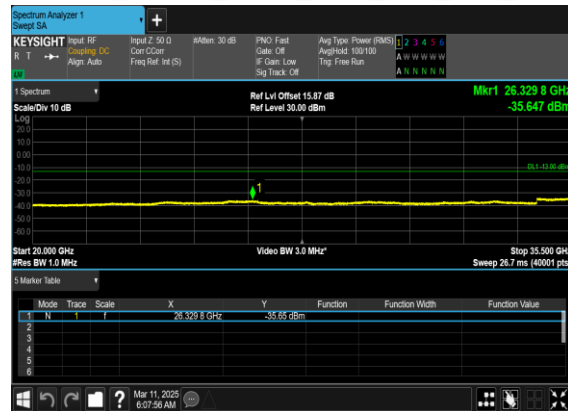
N78(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



Conducted Band Edge

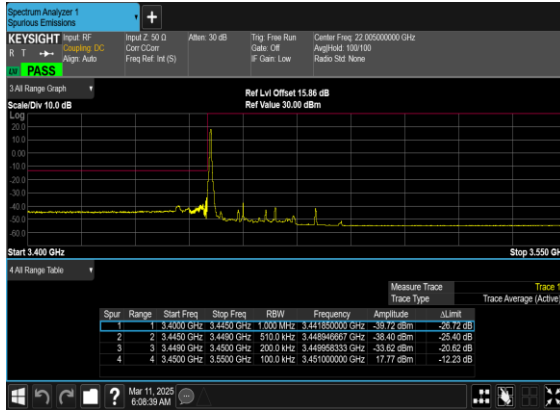
NR Band	SCS (kHz)	Bandwidth (MHz)	Arfcn	Freq (MHz)	Modulation	RB	Result	Verdict
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	30	20	630668	3460.02	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	1@50	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	1@50	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM BPSK	50@0	see graph	PASS
78	30	20	636000	3540.0	DFT-s-OFDM QPSK	50@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM BPSK	162@0	see graph	PASS
78	30	60	632000	3480.0	DFT-s-OFDM QPSK	162@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	1@161	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	1@161	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM BPSK	162@0	see graph	PASS
78	30	60	634666	3519.99	DFT-s-OFDM QPSK	162@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	1@272	see graph	PASS



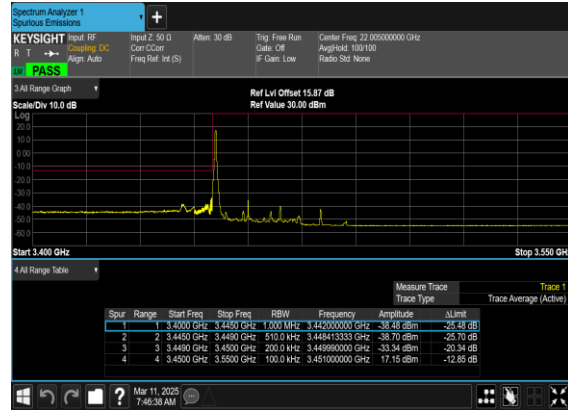
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	1@272	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM BPSK	270@0	see graph	PASS
78	30	100	633334	3500.01	DFT-s-OFDM QPSK	270@0	see graph	PASS



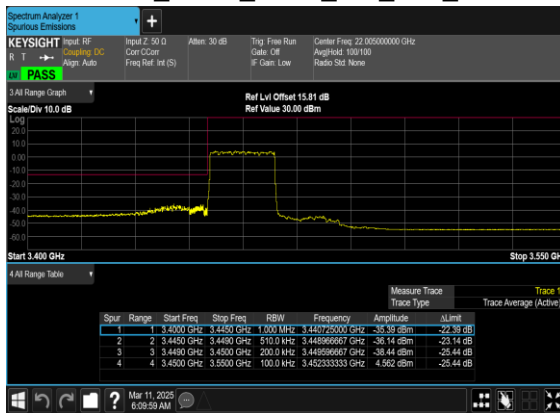
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



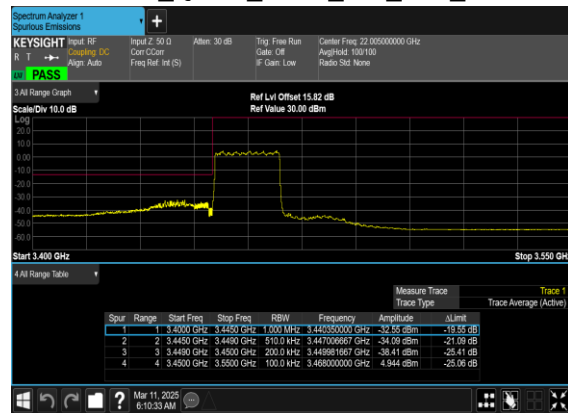
N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(20M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH

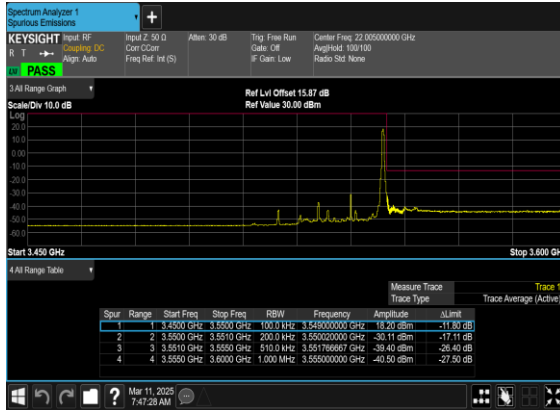


N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH





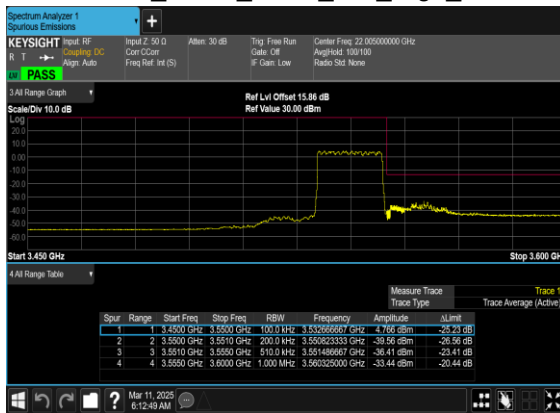
N78(20M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



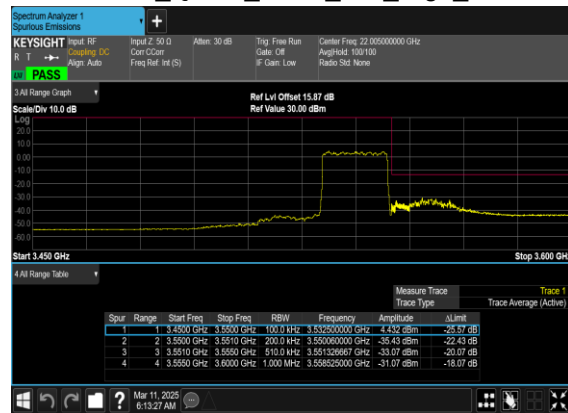
N78(20M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(20M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

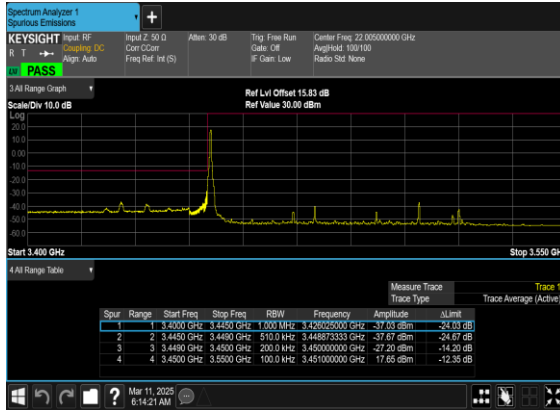


N78(20M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

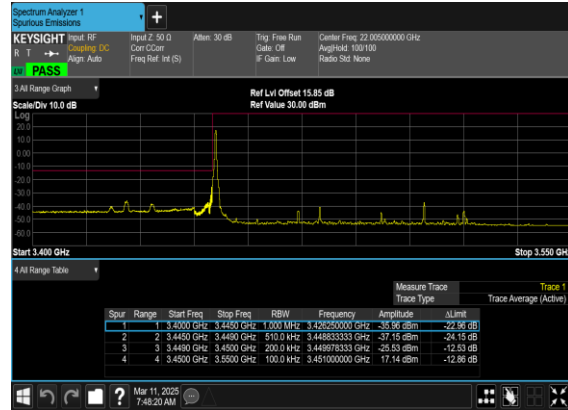




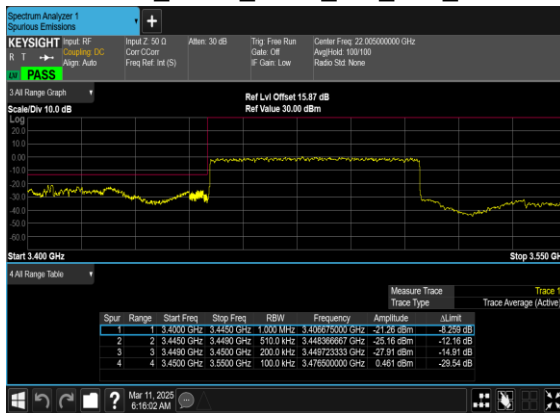
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Low_CH



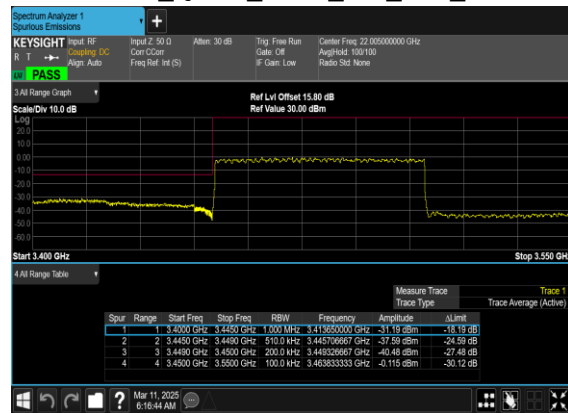
N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Low_CH



N78(60M)_DFT-s-
OFDM_BPSK_Outer_Full_Low_CH



N78(60M)_DFT-s-
OFDM_QPSK_Outer_Full_Low_CH

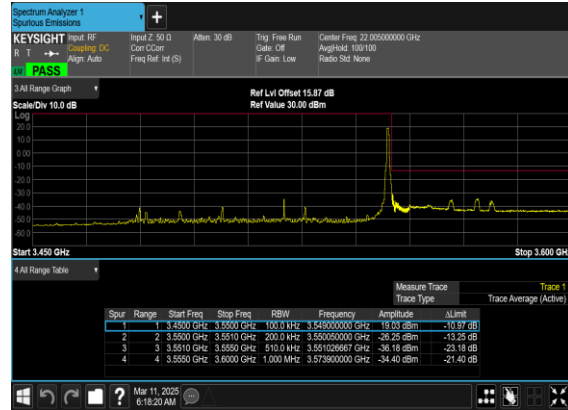




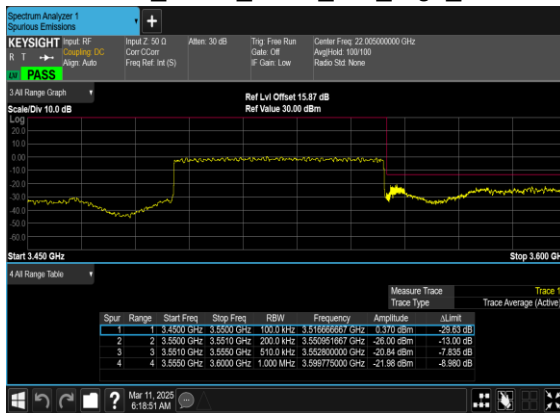
N78(60M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_High_CH



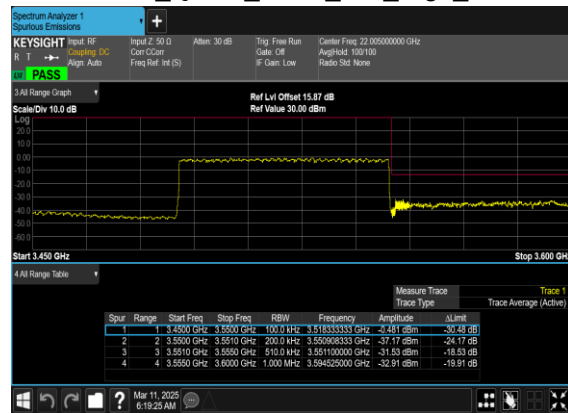
N78(60M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_High_CH



N78(60M)_DFT-s-
OFDM_BPSK_Outer_Full_High_CH

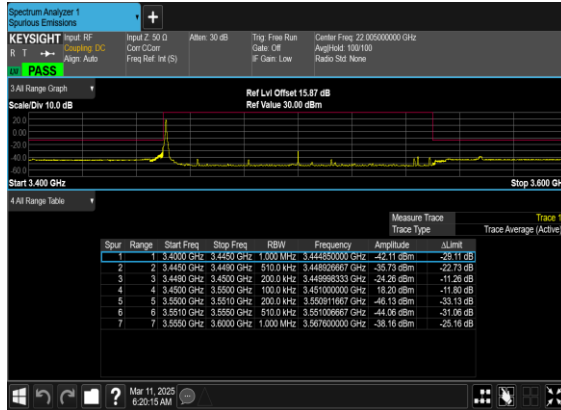


N78(60M)_DFT-s-
OFDM_QPSK_Outer_Full_High_CH

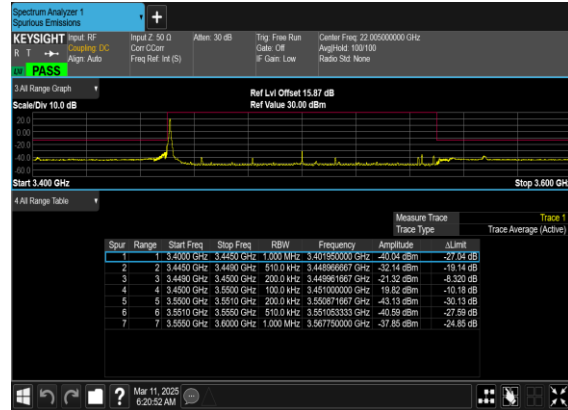




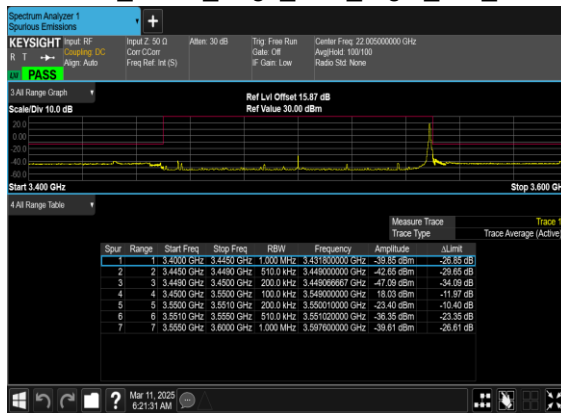
N78(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Left_Mid_CH



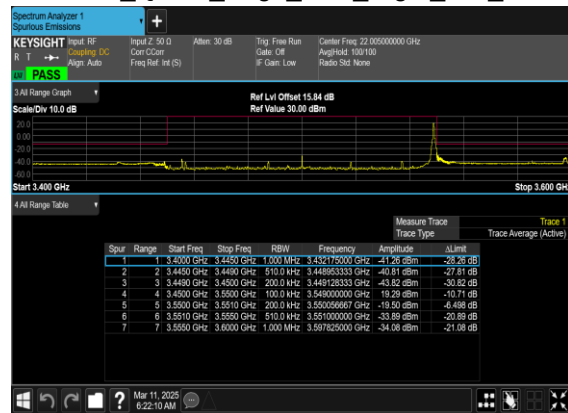
N78(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Left_Mid_CH



N78(100M)_DFT-s-
OFDM_BPSK_Edge_1RB_Right_Mid_CH

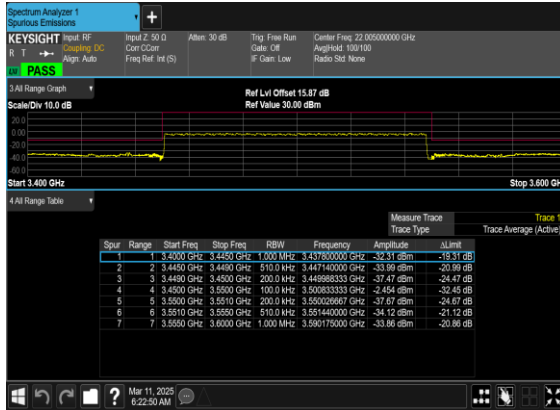


N78(100M)_DFT-s-
OFDM_QPSK_Edge_1RB_Right_Mid_CH

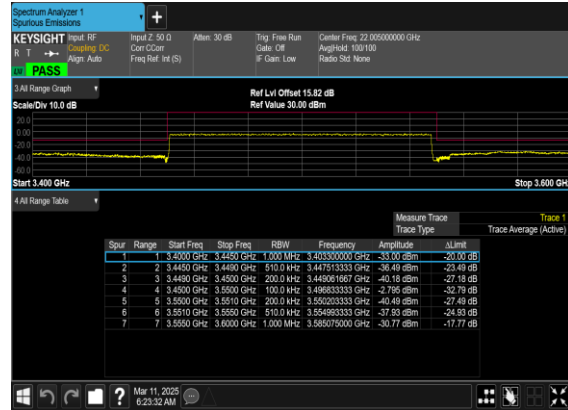




N78(100M)_DFT-s-
OFDM_BPSK_Outer_Full_Mid_CH



N78(100M)_DFT-s-
OFDM_QPSK_Outer_Full_Mid_CH



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPing Zhou	Temperature :	22~25℃
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

n77 SA / NR 100MHz / QPSK(ANT9)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6904.00	-59.00	-13	-46.00	-63.26	-62.30	8.30	11.60	H
	10356.00	-46.01	-13	-33.01	-57.77	-47.53	10.48	12.00	H
	13808.00	-52.57	-13	-39.57	-67.88	-54.27	11.80	13.50	H
	6904.00	-59.82	-13	-46.82	-64.56	-63.12	8.30	11.60	V
	10356.00	-44.18	-13	-31.18	-55.07	-45.70	10.48	12.00	V
	13808.00	-53.02	-13	-40.02	-67.67	-54.72	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC 7A_n77A / LTE 10MHz + NR 100MHz / QPSK(5+9)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n77 Middle	6904.00	-60.26	-13	-47.26	-64.52	-63.56	8.30	11.60	H
	10356.00	-55.70	-13	-42.70	-67.46	-57.22	10.48	12.00	H
	13808.00	-53.01	-13	-40.01	-68.32	-54.71	11.80	13.50	H
	6904.00	-57.75	-13	-44.75	-62.49	-61.05	8.30	11.60	V
	10356.00	-56.18	-13	-43.18	-67.07	-57.70	10.48	12.00	V
	13808.00	-53.78	-13	-40.78	-68.43	-55.48	11.80	13.50	V
LTE Band7 Middle	5061.00	-59.61	-25	-34.61	-81.59	-65.17	7.14	12.70	H
	7591.50	-59.67	-25	-34.67	-65.27	-62.97	8.30	11.60	H
	10122.00	-55.51	-25	-30.51	-66.88	-57.03	10.48	12.00	H
	5061.00	-59.67	-25	-34.67	-81.79	-65.23	7.14	12.70	V
	7591.50	-59.73	-25	-34.73	-65.28	-63.03	8.30	11.60	V
	10122.00	-57.28	-25	-32.28	-67.28	-58.80	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

n78 SA / NR 100MHz / QPSK(ANT9)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6904.00	-58.59	-13	-45.59	-62.85	-61.89	8.30	11.60	H
	10356.00	-51.11	-13	-38.11	-62.87	-52.63	10.48	12.00	H
	13808.00	-52.65	-13	-39.65	-67.96	-54.35	11.80	13.50	H
	6904.00	-60.14	-13	-47.14	-64.88	-63.44	8.30	11.60	V
	10356.00	-49.20	-13	-36.20	-60.09	-50.72	10.48	12.00	V
	13808.00	-53.30	-13	-40.30	-67.95	-55.00	11.80	13.50	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

EN-DC_7A_n78A / LTE 10MHz + NR 100MHz / QPSK(5+9)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA. Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
NR n78 Middle	6904.00	-59.36	-13	-46.36	-63.62	-62.66	8.30	11.60	H
	10356.00	-55.82	-13	-42.82	-67.58	-57.34	10.48	12.00	H
	13808.00	-53.30	-13	-40.30	-68.61	-55.00	11.80	13.50	H
	6904.00	-58.76	-13	-45.76	-63.5	-62.06	8.30	11.60	V
	10356.00	-56.70	-13	-43.70	-67.59	-58.22	10.48	12.00	V
	13808.00	-54.06	-13	-41.06	-68.71	-55.76	11.80	13.50	V
LTE Band7 Middle	5061.00	-59.86	-25	-34.86	-81.84	-65.42	7.14	12.70	H
	7591.50	-59.75	-25	-34.75	-65.35	-63.05	8.30	11.60	H
	10122.00	-55.64	-25	-30.64	-67.01	-57.16	10.48	12.00	H
	5061.00	-59.14	-25	-34.14	-81.26	-64.70	7.14	12.70	V
	7591.50	-59.86	-25	-34.86	-65.41	-63.16	8.30	11.60	V
	10122.00	-56.94	-25	-31.94	-66.94	-58.46	10.48	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.